CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SAN FRANCISCO BAY REGION

ORDER NO. 90-060

AMENDMENT TO ATTACHMENT A OF CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, SAN FRANCISCO BAY REGION, ORDER NO. 89-085

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board) finds that:

- 1. Most of the municipal wastewater treatment plants in the Region, hereinafter referred to as the Producers, produce treated municipal wastewater of sufficient quality to allow its reuse for certain applications as prescribed in this Order. Attachment A, which is hereby made part of this Order, specifies the Producers subject to this Order.
- 2. Treated Wastewater will be made available from treatment plants providing at least secondary treatment to Users under written agreements with the participating Producers. The reclaimed water must meet the quality criteria set under this Order. Additional treatment by the User may be necessary to meet the intended use. The Producer (or in some cases a major Distributor) will be responsible for monitoring wastewater use.

IT IS HEREBY ORDERED:

ATTACHMENT A of ORDER NO. 89-085 is amended to add Central Contra Costa Sanitary District and Contra Costa Water District under the CONTRA COSTA COUNTY section as follows:

CONTRA COSTA COUNTY

Delta Diablo Sanitation District City of Hercules West Contra Costa Sanitation District Central Contra Costa Sanitary District Contra Costa Water District

I, Steven R. Ritchie, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on May 16, 1990.

STEVEN R. RITCHIE Executive Officer

[File No. 2119.1008B]
[Originator/MJR]
[Reviewer/RJC]

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SAN FRANCISCO BAY REGION

ORDER 89-085

WATER RECLAMATION REQUIREMENTS FOR:

MUNICIPAL WASTEWATER TREATMENT.
PRODUCERS IN REGION 2 (ATTACHMENT A)

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board) finds that:

- Most of the municipal wastewater treatment plants in the Region, hereinafter referred to as the Producers, produce treated municipal wastewater of sufficient quality to allow its reuse for certain applications as prescribed in this Order. Attachment A, which is hereby made part of this Order, specifies the Producers subject to this Order.
- 2. Treated wastewater will be made available from treatment plants providing at least secondary treatment to Users under written agreements with the participating Producers. The reclaimed water must meet the quality criteria set under this Order. Additional treatment by the User may be necessary to meet the intended use. The Producer (or in some cases a major Distributor) will be responsible for monitoring wastewater use.
- 3. Wastewater will be picked up by tank truck and sprayed or flooded on the use area. In some limited cases water may be applied through a fixed irrigation system that is an expansion of an existing project under active water reclamation requirements. Uses may include roadway landscaping, selective golf courses irrigation, dust control, soil compaction, street cleaning, etc. There will be no use puruant to this Order on residential landscaping, parks, playgrounds, school yards and other areas where the public has similar unrestricted access or exposure.
- 4. California Water Code Section 13512 declares it is the intention of the Legislature that the State undertake all possible steps to encourage development of water reclamation facilities so that reclaimed water may be made available to help meet the growing water demands of the State.
- 5. The Board adopted a revised Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) on December 17, 1986. The water quality goals to be used in regulating water quality factors as set forth in the Basin Plan include maximum feasible reclamation or reuse of municipal, industrial, and agricultural wastewaters.
- 6. Section 13523 of the California Water Code provides that a Regional Board, after consultation with and reception of recommendations from Department of Health Services (DOHS), and if it determines such action to be necessary to protect the public health, safety, or welfare, shall prescribe water reclamation requirements for water which is used or proposed to be used as reclaimed water.
- These water reclamation requirements are in conformance with the statewide reclamation criteria established by DOHS as prescribed in Title 22, Sections 60031-60335, California Administrative Code.
- 8. This action is being taken by the Board for the protection of natural resources, and involves no significant effect on the environment, and is thus categorically exempt from the provisions of the California Environmental Quality Act in accordance with Title 14, California Administrative Code, Chapter 3, Section 15307.

- 9. The Board has notified the Producers and interested agencies and persons of its intent to prescribe water reclamation requirements.
- The Board, in a public meeting, heard and considered all comments pertaining to this matter.

IT IS HEREBY ORDERED, that the Producers (and Users who have signed a Reclaimed Water Use Permit puruant to this Order), in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereafter, shall comply with the following:

A. Prohibitions

- The treatment, storage, distribution, or reuse of reclaimed water shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
- No wastewater shall be applied to the use areas during periods of rainfall or when soils are saturated.
- 3. No constituent of reclaimed water shall be allowed to escape from the designated use area via surface flow or airborne spray, mist, or acrosol.
- 4. Reclaimed water shall not be applied so as to cause saturated conditions within 100 feet of any water body or wetland.
- 5. Reclaimed water shall not be used as a domestic or animal water supply. There shall be no cross-connection between potable water supply and piping containing reclaimed water. Supplementing reclaimed water with water used for domestic supply shall not be allowed except through an air-gap separation. An air-gap or reduced pressure principle device shall be provided at all domestic water service connections to reclaimed water use areas.
- 6. The use of reclaimed water shall not cause the degradation of groundwater used for domestic purposes or cause any change in a quality parameter which would make the groundwater unsuitable for irrigation use.

B. Reclaimed Water Uses

- 1. The reclaimed wastewater applications in this Order are restricted to the following types of uses and areas:
 - a. Reclaimed water used for irrigation of golf courses without contiguous residential developmen (evening application), cemeteries, freeway landscapes, and landscapes in other areas where the public has restricted access or exposure and there is no contiguous residential development.
 - b. Water for street cleaning, sewer flushing, soil compaction, and dust control.
 - c. Small scale expansion of irrigation projects already regulated under existing water reclamation requirements, with the written approval of the Executive Officer.
- 2. If applied at a landscape area used by the public (e.g. golf courses/cemeteries), reclaimed water of the quality cited in the Specifications section below must be:
 - Applied only in evening or night hours when the area is not in use;

- b. Applied without airborne drift or surface runoff into residential areas or other areas frequented by the public;
- c. Allowed to dry on vegetation and infiltrate into soil before the area is used again, so wastewater will not be the cause of any wetness remaining on vegetation at the start of the next use.
- 3. This Order does not apply to projects involving irrigation of land where there is a high probability of direct public contact such as parks, playgrounds, schoolyards, golf courses with contiguous residential development, or other areas where the public has similar access or exposure (unless specifically approved by the Executive Officer in writing, after consultation with the State and County Health Departments on a case-by-case basis).
- 4. For large scale and long term projects involving agricultural applications and any other food crop irrigation, a detailed Report of Waste Discharge application must be filed directly with the Regional Board for review and consideration of separate water reclamation requirements.

C. Reclaimed Water Use Specifications

Producer

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 The Producer shall assure that the reclaimed water is at all times an adequately oxidized, disinfected wastewater that meets the following quality limits prior to being provided to a User:

In any composite sample:

a. 5-day BQD	30 mg/l	(30 day ave)
•	60 mg.l	(daily max)

In any grab sample:

b.	Dissolved Oxygen	3.0 mg/l	minimum
c.	Dissolved Sulfide*	0.1 mg/l	maximum
	* To be measured if D.O. (falls below 2.0 mg/l	

At any point downstream of the disinfection facilities where adequate contact with disinfectant is assured:

- d. The median number of total coliform organisms shall not exceed 23 MPN/100 ml as determined from the bacteriological results of the last seven days for which analyses have been completed, and the number of total coliform organisms shall not exceed 240 MPN/100 ml in any two consecutive samples.
- 2. The Producer shall discontinue delivery of reclaimed water to Users during any period in which he has reason to believe that the limits specified in C.1 above are not being met. The delivery of reclaimed water shall not be resumed until all conditions which caused the limits in C.1. to be violated have been corrected.

<u>User</u>

- 3. Reclaimed water shall not be used for public consumption.
- 4. Adequate measures shall be taken to minimize public contact with reclaimed wastewater and to inform the public that reclaimed water containing potential infectious micro-organisms is being used. Conspicuous warning signs with proper wording of sufficient size to be clearly read shall be posted at adequate intervals around the use area, unless public access is otherwise restricted.
- 5. All reclaimed water distribution lines and sprinkler systems shall be appropriately tagged with conspicuous warning signs with proper wording of sufficient size (at controller values, outlets, etc.) to warn the public that the water is not safe for drinking or direct contact. Tank trucks used for carrying or spraying reclaimed wastewater shall be identified as such with clearly read warning signs.
- Reclaimed wastewater shall not be applied where it could contact walkways, passing vehicles, buildings, drinking water facilities, or enter areas where food is handled or eaten or areas not under control of the user.
- 7. There shall be at least a 10-foot horizonal and 1-foot vertical separation (with the domestic water above the reclaimed pipeline) between all pipelines transporting reclaimed water and those transporting domestic water.
- 8. Use or installation of hose bibbs on any reclaimed irrigation system, regardless of hose bibb construction or identification, shall not be permitted.
- Irrigation shall be practiced during periods when grounds will have maximum opportunity to dry before use by the public.
- 10. Irrigated areas shall be properly graded to minimize ponded water.

D. Producer/User Agreements

- The Producer shall require a User to fill out and sign a Reclaimed Water Use Permit, as shown in Attachment B, herein made a part of this Order. A Producer may use a modified permit format upon approval of the Executive Officer.
- 2. The Users should contact the appropriate Producer to make sure that water will be made available to them. The Producer shall be directly responsible for the effluent quality and the User(s) shall be responsible for the application of the reclaimed water. If someone other than the User is responsible for applying the reclaimed water (Distributor), then the User shall inform that person or persons of these requirements, in a written agreement or other suitable manner. A Distributor shall fill out a Reclaimed Water Release Form (or alternate record tracking format approved by the Executive Officer) when picking up water from a Producer.
- 3. A copy of the Reclaimed Wastewater Permit and this Order must be provided to the User by the Producer. The User and Distributor must have these available at all times for inspection by the Regional Board staff, Producer, or State/County Health Officers. The Distributor must also carry the Reclaimed Water Release Form at all times.
- 4. No wastewater shall be provided to a User/ Distributor unless the truck driver presents the authorized signed User Permit as issued by the Producer.

E. Provisions

- The Producer shall track and monitor all Use Permits and comply with the self-monitoring program as adopted by this Board and as may be amended by the Executive Officer.
- 2. The Producer shall develop an inspection program, subject to approval of the Executive Officer, to monitor User(s) compliance with this Order.
- 3. The Producer and any major Distributor shall provide employee training to assure compliance with this Order.
- 4. The Producer and User shall maintain in good working order and operate, as efficiently as possible, any facility or control system installed or as modified to achieve compliance with this Order.
- 5. The Producer, User/Distributor shall permit the Board or its authorized representatives, in accordance with Section 13267(c) of the California Water Code:
 - a. Entry upon premises where a regulated facility or activity is located or conducted, or where records are kept under the conditions of this Order;
 - Access to and copy of, at reasonable times, any records that must be kept under the conditions of this Order;
 - Inspection, at reasonable times, of any facility, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order; or
 - d. To photograph, sample or monitor, at reasonable times, for the purpose of assuring compliance with this Order.
- 6. After notice and opportunity for a hearing, this Order may be terminated or modified for cause, including, but not limited to:
 - a. Violation of any term or condition contained in this Order;
 - b. Obtaining this Order by misrepresentation, or failure to disclose fully all relevant facts:
 - c. A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized reuse;
 - Endangerment to public health or environment that can only be regulated to acceptable levels by Order modification or termination.
- 7. This Order is effective immediately upon adoption and replaces the Board's current Conditional Waiver for Use of Reclaimed Water program. Users who have an existing Conditional Waiver as of May 17, 1989, will have until June 15, 1989 in which to reapply under this Order. The Producer is to inform all existing Users of the new Program by June 1, 1989.
- 8. This Order supersedes Resolution 88-088 Conditional Waivers of Waste Discharge Requirements for Selected Water Reclamation Projects During Drought Conditions.

 Resolution 88-088 is no longer applicable and hereby rescinded effective June 15, 1989.

- Any Use Permit issued by a Producer may be revoked by the Executive Officer upon a finding of non-compliance with this Order.
- 10. The Board will review this Order periodically and may revise the requirements when necessary.

I, Steven R. Ritchie, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on May 17, 1989.

STEVEN R. RITCHIE Executive Officer

Attachments:

- A. List of Producers subject to this Order
- B. Reclaimed Water Use Permit/Release Form
- C. Self-Monitoring Program

[Originator/RJC] [Reviewer/TCW]

File No.: 2107.00

17.

ATTACHMENT A

MUNICIPAL WASTEWATER TREATMENT FACILITIES

ALAMEDA COUNTY

Dublin San Ramon Services District
East Bay Municipal Utility District
City of Hayward
City of Livermore
Oro Loma Sanitary District
City of San Leandro
Union Sanitary District

CONTRA COSTA COUNTY

Delta Diablo Sanitation District City of Hercules West Contra Costa S.D.

MARIN COUNTY

Sewage Agency of Southern Marin

NAPA COUNTY

City of Calistoga Napa Sanitation District City of St. Helena Town of Yountville

SAN MATEO COUNTY

Burlingame STP
City of San Mateo
City of Millbrae
South Bayside Systems Authority
South San Francisco/San Bruno WWTP
North San Mateo CSD
San Francisco International Airport WQCP

SANTA CLARA COUNTY

City of Palo Alto
Cities of San Jose/Santa Clara
City of Sunnyvale

SOLANO COUNTY

City of Benecia Vallejo Sanitation & Flood Control District

SONOMA COUNTY

City of Petaluma

SAN FRANCISCO COUNTY

City & County of San Francisco

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM

FOR

WATER RECLAMATION REQUIREMENTS
ORDER NO. 89-085

May 17, 1989

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15.

I. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13268, 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16 (Water Reclamation Policy).

The principal purposes of a monitoring program by a waste discharger or reclaimed water user, also referred to as a self-monitoring program, are:

- 1. To document compliance with waste discharge requirements and prohibitions established by this Regional Board; and
- 2. To facilitate self-policing by the waste discharger in the prevention and abatement of pollution arising from waste discharge.

II. WASTEWATER SAMPLING AND ANALYSES

The Producer shall document effluent quality under their regular facility Waste Discharge Order self-monitoring program. See below for any violations related to the reclaimed water reuse program.

III. REPORTS TO BE FILED WITH THE REGIONAL BOARD

1. <u>Violation of Requirements</u>

In event the Producer is unable to comply with conditions of the water reclamation requirements and prohibitions the Producer shall notify the Regional Board in writing within two weeks of the non-compliance. The written report shall include pertinent information explaining reasons for the non-compliance and shall indicate what steps are being taken to prevent the problems from recurring.

2. Self-monitoring Reports

Written reports shall be filed regularly on a quarterly basis; the thirtieth of January (part of Annual report), and the fifteenth of April, July and October. The Reports shall be comprised of the following:

a. Letter of Transmittal

A letter transmitting self-monitoring reports should accompany each report. Such a letter shall include a discussion of violations found during the past quarter related to the reclaimed water use program and actions taken for correcting violations. The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true and correct.

b. <u>Program Information</u>

The following information should be included in the quarterly report:

1) A list of new Use Permits issued with name of user, type of application use, gallons per day authorized, date issued, and expiration date.

- A Summary of monthly water releases per User. Include the type of use water is intended. May be obtained from the Reclaimed Water Release Forms.
- 3) A Summary of effluent violations related to reclaimed water reuse; violations found during inspection of User applications of reclaimed water and corrective actions taken; and any changes to or revoking of User Permits.
- 4) A summary of inspections of Users during the quarter (see below).

3. Annual Report

An annual report shall be submitted by January 30. This report should summarize for the past calender year all the information collected in the quarterly reports. It should also include a discussion of the overall success and weaknesses of the program, with recommendations for changes or improvements.

IV. INSPECTION PROGRAM

The Producer shall conduct periodic random inspections of selected permitted Users to insure compliance with the Water Reclamation Requirements. Where there is a high volume User/Distributor an agreement may be signed between them and Producer delegating the inspection portion of the program to the User/Distributor.

The observations must be made during the periods when irrigation of reclaimed wastewater is in progress. A proposed inspection program (and if applicable, any Producer/User monitoring/inspection agreements) shall be submitted to the Board for approval by the Executive Officer within 30 days of the effective date of the Water Reclamation Requirements. An example of an inspection form is in Attachment A.

I, Steven R. Ritchie, Executive Officer, do hereby certify that the foregoing Self-monitoring Program is effective on the date shown below and may be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the Producer, and revisions will be ordered by the Executive Officer.

STEVEN R. RITCHIE Executive Officer

Attachments:

7.

A. Example of Inspection Program

Effective Date: May 17, 1989

INSPECTION CHECKLIST FOR WASTEWATER RECLAMATION OPERATION (Conditional Waiver Projects)

[Reclaimed Water Supplier:	Reclaimed Water User:			_
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make and mine of the demonstrate				
Date and Time of the inspection: Specific Uses of the Reclaimed water	•			***************************************
Owner/Operator in presence:	· · · · · · · · · · · · · · · · · · ·			
Tank Trucks License Plate No.:				
Weather Conditions:				
Check the appropriate items listed by 1. Treatment Level Received: [] so 2. Type of Application: [] tank to	econdary [] tertian	wash w	ater	
[] other	(specify:			ر
3. Standard Observations:				** **
		<u>Yes</u>	<u>No</u> []	N∕Ā
a. Reclaimed water is used in nor	-designated areas:	įį	įį	1 1
b. Odor misance:	ad makambial	f 1	l j	f J
c. Escape of reclaimed water to	ireas or potential	f 3	f 3	Γ٦
public health hazards: d. Saturated soils or ponding in the use areas:			[]	ìi
e. Vehicles hauling reclaimed wat	ter is leaking or	• •		
is not properly labelled wit	th warming signs:	[]	[]	[]
f. User not carrying RAQCB author	rization in vehicle	• •		
or on site:		[]	[]	[]
g. Reclaimed water is sprayed on	buildings, vehicles,			
picnic tables, drinking four	ntains, etc.:	[]	[]	[]
h. When required, warning signs	are not properly			
posted in the use areas:		[j	ijį	[]
i. Buffer zones from sensitive at	reas not maintained:	įį	ļļ	ΪÌ
j. Broken pipes or apray nozzles	•	l J	LJ	LJ
If a "yes" is circled for any of	the above, provide exp	lanatio	ns be	low:
Additional notes:				
Signature of Trenert	or:	Dat	e:	

RECLAIMED WATER RELEASE FORM DISTRIBUTOR* PRODUCER FACILITY____ FACILITY____ ADDRESS ADDRESS PHONE PHONE____ * User name if different DATE VOL. COLLECTED USE AREA TRUCK LIC. # PRODUCER SIG. ****

COPIES OF THIS FORM SHALL BE KEPT AT PRODUCING FACILITY AND IN TRANSPORT VEHCILE

This Use Permit must be available for RECLAIMED WATER USE PERMIT inspection at all times. The reclaimed water Distributor shall carry a copy in the tanker truck at all times and must NAME OF PRODUCER____ present it to the Producer for water pickups. This Permit is subject to all ADDRESS _____ Prohibitions, Specifications and Provisions of RWQCB ORDER NO. 89-085 EFFECTIVE DATE OF PERMIT______ EXPIRATION DATE PRODUCER INFORMATION LEVEL OF TREATMENT: SECONDARY ADVANCED SECONDARY/TERTIARY VOLUME OF RECLAIMED WATER AUTHORIZED PER DAY **USER INFORMATION** NAME OF USER _____PHONE:_____PHONE:_____ ADDRESS ____ **DISTRIBUTOR INFORMATION** DISTRIBUTOR (If different from above)_____PHONE: ADDRESS _____ *A Reclaimed Water Release Form must be filled out on each water pickup and retained at the application site or distribution vechile. Users and Distributors should also follow the attached Guidelines for Worker Protection. TYPE OF RECLAIMED WATER USAGE APPLICATION METHOD: Tank Truck Spray Wash Water Other_____ USE OF THE WATER WHERE APPLIED: COUNTY______CITY____ CERTIFICATION I HEREBY CERTIFY UNDER PENALTY OF PERJURY THAT THE INFORMATION PROVIDED IN THIS APPLI CATION AND IN ANY ATTACHMENTS IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE. I ALSO CERTIFY THAT I HAVE READ AND AGREE TO ABIDE BY RWQCB ORDER NO. 89-085. SIGNATURE OF PRODUCER_____TITILE____DATE____ SIGNATURE OF USER______TITLE_____DATE____ SIGNATURE OF DISTRIBUTOR_____TITLE_____DATE____

RECLAIMED WATER RELEASE FORM DISTRIBUTOR* PRODUCER FACILITY__ FACILITY_____ ADDRESS____ ADDRESS____ PHONE__ PHONE_ * User name if different DATE VOLUME COLLECTED TRUCK LIC. # PRODUCER SIG.

COPIES OF THIS FORM SHALL BE KEPT AT PRODUCING FACILITY AND IN TRANSPORT VEHCILE